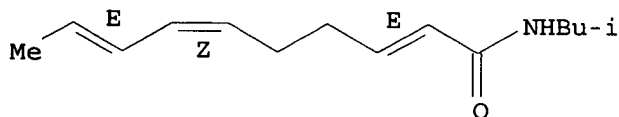


L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 25394-57-4 REGISTRY  
 CN 2,6,8-Decatrienamide, N-(2-methylpropyl)-, (2E,6Z,8E)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2,6,8-Decatrienamide, N-(2-methylpropyl)-, (E,E,Z)-  
 CN 2,6,8-Decatrienamide, N-isobutyl-, (E,E,Z)- (8CI)  
 CN Affinin (7CI)  
 OTHER NAMES:  
 CN N-Isobutyldeca-trans-2,cis-6,trans-8-trienamide  
 CN **Spilanthol**  
 FS STEREOSEARCH  
 DR 504-47-2  
 MF C14 H23 N O  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, DDFU, DRUGU, IFICDB, IFIPAT, IFIUDb, IPA, MRCK\*, NAPRALERT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

Double bond geometry as shown.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

48 REFERENCES IN FILE CA (1907 TO DATE)  
 48 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L18 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:372574 CAPLUS  
 DN 140:362549  
 ED Entered STN: 07 May 2004  
 TI Anti-dandruff and anti-itch compositions containing **sensate** and  
**sensate** enhancer-containing compounds  
 IN Flammer, Linda J.; Grainger, Brian T.; Boden, Richard M.; Christensen,  
 Carol  
 PA USA  
 SO U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of U.S. Ser. No. 67,596,  
 abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM A61K007-06  
 ICS A61K007-11  
 NCL 424070110; 424074000  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004086476	A1	20040506	US 2003-643542	20030819
	US 2003161802	A1	20030828	US 2002-67596	20020205
	BR 2002004271	A	20040601	BR 2002-4271	20020927
	CN 1436520	A	20030820	CN 2002-150624	20021111
PRAI	US 2002-67596	B2	20020205		

# CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004086476	ICM	A61K007-06
	ICS	A61K007-11
	NCL	424070110; 424074000
US 2004086476	ECLA	A61K008/34; A61K008/35; A61K008/37; A61K008/42; A61K008/97; A61Q005/00; A61Q005/02

AB Described are anti-dandruff and anti-itch compns. comprising: (a) an  
 anti-dandruff agent; (b) a cooling **sensate** material; and (c) a  
 cooling **sensate**. Also described are personal care products for  
 reduction of itching including shampoos, soaps, ointments and creams which  
 contain the anti-dandruff and anti-itch compns. A shampoo contained  
 ammonium lauryl sulfate (27% aqueous solution) 56.0, citric acid 0.50, sodium  
 citrate 0.50, coconut monoethanolamide 5.0, ethylene glycol distearate  
 3.0, Me paraben 0.50, Pr paraben 0.50, color solution 0.20, water 33.8 parts  
 by weight To the above shampoo zinc pyrithione at the rate of 1%, menthol at  
 the rate of 0.5%, N,2,3-trimethyl-2-isopropyl-butyramide at the rate of  
 0.35% and nonylic acid vanillamide at the rate of 0.002% was added to  
 obtain the anti-dandruff and anti-itching composition of the invention.

ST antidandruff itching **sensate** enhancer compd shampoo

IT Alcohols, biological studies

Ethers, biological studies

Glycols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C1-5, menthoxy derivs.; anti-dandruff and anti-itch compns. containing  
**sensate** and **sensate** enhancer-containing compds.)

IT Cooling

Cream

Piper nigrum

Pruritus

Shampoos

Zanthoxylum piperitum

(anti-dandruff and anti-itch compns. containing **sensate** and  
**sensate** enhancer-containing compds.)

IT Soaps

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (anti-dandruff and anti-itch compns. containing **sensate** and  
**sensate** enhancer-containing compds.)

IT Cosmetics  
 (creams; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Essential oils  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (ginger; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Dandruff  
 (inhibitors; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Essential oils  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (mint, Mentha; anti-dandruff and anti-itch compns. containing  
**sensate** and **sensate** enhancer-containing compds.)

IT Drug delivery systems  
 (ointments; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Resins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oleoresins; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Essential oils  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (peppermint; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT Essential oils  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (spearmint; anti-dandruff and anti-itch compns. containing **sensate**  
 and **sensate** enhancer-containing compds.)

IT 89-78-1, Menthol 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2,  
 Piperine 99-82-1D, p-Menthane, hydroxy-lower alkyl derivs. 119-36-8,  
 Methyl salicylate 121-32-4D, Ethyl vanillin, C3-6 alkylene glycol acetal  
 derivs. 121-33-5, Vanillin 404-86-4, Capsaicin 495-91-0, Chavicine  
 1490-04-6, Menthol 2444-46-4 13284-97-4D, Cyclohexyl sulfoxide, alkyl  
 derivs. 13463-41-7, Zinc 1-hydroxy-2-pyridinethione 17162-29-7,  
 Menthyl lactate 19072-58-3D, Vanillamide, C7-12 alkanolic acid derivs.  
 25394-57-4, Spilanthol 25830-82-4 25830-82-4D, alkali metal  
 salts 28797-07-1D, Cyclohexyl sulfone, alkyl derivs. 39711-79-0,  
 N-Ethyl-p-menthane-3-carboxamide 51115-67-4 75363-56-3 75363-56-3D,  
 alkali metal salts 82654-98-6 110866-25-6, **Sanshool**  
 I 159131-97-2, Sanshoamide 352515-13-0,  
**Sanshool-II**  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (anti-dandruff and anti-itch compns. containing **sensate** and  
**sensate** enhancer-containing compds.)

L18 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:944238 CAPLUS  
 DN 140:180285  
 ED Entered STN: 04 Dec 2003  
 TI Pungent and tingling compounds in Asian cuisine  
 AU Galopin, Christophe C.; Furrer, Stefan M.; Goeke, Andreas  
 CS Givaudan Flavors R&D, Ingredient Systems, Cincinnati, OH, 45069, USA  
 SO ACS Symposium Series (2004), 867(Challenges in Taste Chemistry and  
 Biology), 139-152  
 CODEN: ACSMC8; ISSN: 0097-6156  
 PB American Chemical Society  
 DT Journal; General Review  
 LA English  
 CC 17-0 (Food and Feed Chemistry)

AB A review. Southern Asian cuisine is well known for its use of flavorful and pungent spices. The **sanshool** chems., such as  $\alpha$ -hydroxy- **sanshool** from the Japanese Sanchoo pepper and other Asian peppers, are particularly interesting because they not only give a hot **sensation** in the mouth cavity but also a tingling effect on the tongue. In order to understand the effect of the **sanshool** chems. the authors have synthesized a variety of derivs. Tasting of those derivs. provided information about Structure Activity Relationship (SAR) for the tingling effect exhibited by these chems. Based on this study the authors are able to propose a minimal structure required for the tingling effect. We also used this SAR knowledge to design stable compds. with potential tingling effect.

ST review Asian food additive Sanshoo bungeanool deriv pungency tingling; Sanshoo bungeanool deriv structure pungency tingling review

IT Taste  
(pungency; pungent and tingling compds. in Asian cuisine)

IT Spices  
(pungent and tingling compds. in Asian cuisine)

IT Structure-activity relationship  
(taste; pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

IT Food functional properties  
(tingling; pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

IT 83883-10-7D,  $\alpha$ -Hydroxy- **sanshool**, derivs.  
117568-40-8D, Bungeanool, derivs.  
RL: BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)  
(pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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- (2) Chen, I; Phytochemistry 1999, V52, P357 CAPLUS
- (3) Crombie, L; J Chem Soc 1952, P4338 CAPLUS
- (4) Crombie, L; J Chem Soc 1955, P995 CAPLUS
- (5) Crombie, L; J Chem Soc 1957, P2760 CAPLUS
- (6) Crombie, L; Tetrahedron Lett 1985, V26(20), P2477 CAPLUS
- (7) Jacobson, M; J Org Chem 1967, V32, P1646 CAPLUS
- (8) Mizutani, K; Chem Pharm Bull 1988, V36(7), P2362 CAPLUS
- (9) Sonnet, P; J Org Chem 1969, V34(4), P1147 CAPLUS
- (10) van der Linde, L; EP 0173395 A1 1985 CAPLUS
- (11) Ward, J; Recl Trav Chim Pays-Bas 1969, V88, P177 CAPLUS
- (12) Xiong, Q; Phytochemistry 1997, V46(6), P1123 CAPLUS

L18 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:609487 CAPLUS

DN 139:138355

ED Entered STN: 08 Aug 2003

TI Anti-dandruff and anti-itch compositions containing a cooling **sensate** material and a cooling **sensate** enhancer

IN Flammer, Linda J.; Grainger, Brian T.; Boden, Richard M.; Christensen, Carol

PA International Flavors & Fragrances Inc., USA

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61P017-00

ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	EP 1332772	A2	20030806	EP 2003-250700	20030204
	EP 1332772	A3	20041117		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2003161802	A1	20030828	US 2002-67596	20020205
	BR 2002004271	A	20040601	BR 2002-4271	20020927
	CN 1436520	A	20030820	CN 2002-150624	20021111
PRAI	US 2002-67596	A	20020205		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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EP 1332772	ICM	A61P017-00
	ICS	A61K007-48
EP 1332772	ECLA	A61K008/34; A61K008/35; A61K008/37; A61K008/42; A61K008/97; A61Q005/00; A61Q005/02

AB Described are anti-dandruff and anti-itching compns. comprising: (a) an antidandruff agent; (b) a cooling **sensate** material; and (c) a cooling **sensate** enhancer. Also described are personal care products for reduction of itching including shampoos, soaps, ointments and creams which contain the anti-dandruff and anti-itch compns. To a shampoo, zinc pyrithione 1 %, menthol 0.5 %, and N,2,3-trimethyl-2-isopropylbutyramide 0.35 % were added. Deep cleansing, soothing, itching reduction, cooling, and/or tingling effects were reported.

ST dandruff itching control cooling enhancing agent; menthol pyrithione antidandruff shampoo

IT Piper nigrum  
Pruritus  
Seborrhea  
Zanthoxylum piperitum  
(anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Soaps  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Shampoos  
(antidandruff; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Essential oils  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(mint, Mentha; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Drug delivery systems  
(ointments, creams; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Drug delivery systems  
(ointments; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Capsicum  
Zingiber officinale  
(oleoresins; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Resins  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(oleoresins; anti-dandruff and anti-itching compns. containing cooling **sensation** agents)

IT Essential oils  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(peppermint; anti-dandruff and anti-itching compns. containing cooling sensation agents)

IT Essential oils  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (spearmint; anti-dandruff and anti-itching compns. containing cooling sensation agents)

IT 89-78-1, Menthol 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2,  
 Piperine 119-36-8, Methyl salicylate 404-86-4, Capsaicin 495-91-0,  
 Chavicine 2444-46-4, Vanillyl n-nonylamide 13463-41-7,  
 1-Hydroxy-2-pyridinethione zinc salt 17162-29-7, Menthyl lactate  
 25394-57-4, Spilanthol 25830-82-4 39711-79-0,  
 N-Ethyl-p-menthane-3-carboxamide 42822-86-6 51115-67-4 63187-91-7  
 75363-56-3 82654-98-6, Vanillyl butyl ether 110866-25-6,  
 Sanshool I 159131-97-2, Sanshoamide 352515-13-0  
 , Sanshool-II  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (anti-dandruff and anti-itching compns. containing cooling sensation agents)

L18 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:842774 CAPLUS  
 DN 138:284551  
 ED Entered STN: 06 Nov 2002  
 TI Pungency and tingling: **sensations** and mechanisms of trigeminal chemical sensitivity  
 AU Bryant, Bruce; Mezzine, Igor  
 CS Monell Chemical Senses Center, Philadelphia, PA, 19104, USA  
 SO ACS Symposium Series (2002), 825 (Chemistry of Taste), 202-212  
 CODEN: ACSMC8; ISSN: 0097-6156  
 PB American Chemical Society  
 DT Journal  
 LA English  
 CC 13-6 (Mammalian Biochemistry)  
 AB Distinct from taste and olfaction, the trigeminal nerve is the third sensory pathway in the cranial sensory system that is sensitive to chemical stimuli. Trigeminal nerve endings in the nose and mouth contribute to flavor through the sensory modalities of touch, thermal **sensation** and pain. The best-characterized example of chemical induced trigeminal **sensation** is the pungency produced by hot peppers, the result of the activation of ion channels on pain-sensitive and thermally sensitive nerve fibers. Compds. commonly found in spices, food and beverages also elicit **sensations** other than pain. Menthol and other related compds. stimulate a subclass of thermal nerve endings to produce cooling. Yet other compds., stimuli as diverse as CO2 and fatty acids as well as some unsatd. alkylamides found in non-capsicum peppers and other plants, activate cooling-sensitive and tactile nerve endings. This particular combination of modalities gives rise to the novel tingling **sensations** associated with these stimuli.

ST hydroxysanshool calcium pungency tingling trigeminal neurotransmission flavor

IT Neurotransmission  
 (pungency and tingling **sensations** and mechanisms of trigeminal chemical sensitivity)

IT Taste  
 (pungency; pungency and tingling **sensations** and mechanisms of trigeminal chemical sensitivity)

IT Nerve  
 (trigeminal; pungency and tingling **sensations** and mechanisms of trigeminal chemical sensitivity)

IT Amides, biological studies  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)

(unsatd.; pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

IT 7440-70-2, Calcium, biological studies 83883-10-7,  
Hydroxy- $\alpha$ - sanshool  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(effects of hydroxy- $\alpha$ - sanshool on intraneuronal calcium  
and taste pungency in mechanisms of trigeminal chemical sensitivity)

IT 504-97-2,  $\alpha$ - Sanshool 7328-34-9  
10076-00-3,  $\beta$ - Sanshool 18744-21-3 18836-52-7,  
Pellitorine 25394-57-4, Spilanthol 30361-33-2 65937-49-7  
68125-01-9 73785-32-7 97465-69-5, Hydroxy- $\beta$ -  
sanshool 252193-26-3, Hydroxy- $\epsilon$ - sanshool  
499136-10-6 499136-12-8  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(pungency and tingling sensations and mechanisms of  
trigeminal chemical sensitivity)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

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- (2) Bryant, B; Brain Res 1999, V842, P452 CAPLUS
- (3) Caterina, M; Nature 1997, V389, P816 CAPLUS
- (4) Craig, A; Science 1994, V265, P252 MEDLINE
- (5) Duke, J; CRC Handbook of Medicinal Herbs 1985
- (6) Garnsworthy, R; J Neurophysiol 1988, V59, P1116 MEDLINE
- (7) Green, B; Chemical Senses 1992, V17, P435 CAPLUS
- (8) Greger, H; Planta Medica 1984, V50, P366 CAPLUS
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- (11) Jacobson, M; J Am Chem Soc 1948, V70, P4234 CAPLUS
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- (15) Schmelz, M; J Neurosci 1997, V17, P8003 CAPLUS
- (16) Walpole, C; J Med Chem 1993, V36, P2381 CAPLUS
- (17) Yasuda, I; Chem Pharm Bull 1981; V29, P1791 CAPLUS

L18 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:613257 CAPLUS  
ED Entered STN: 16 Aug 2002  
TI Pungent and tingling compounds in Asian cuisine  
AU Galopin, Christophe C.; Furrer, Stefan M.; Goeke, Andreas  
CS Ingredient Systems, Givaudan Flavors R&D, Cincinnati, OH, 45216, USA  
SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United  
States, August 18-22, 2002 (2002), AGFD-056 Publisher: American Chemical  
Society, Washington, D. C.  
CODEN: 69CZPZ

DT Conference; Meeting Abstract

LA English

AB Southern Asian cuisine is well known for its use of flavorful and pungent spices. The sanshool chems., such as alpha-hydroxy-sanshool from the Japanese Sancho pepper and other Asian peppers, are particularly interesting because they not only give a hot sensation in the mouth cavity but also a tingling effect on the tongue. In order to understand the effect of the sanshool chems. we have synthesized a variety of derivs. Tasting of those derivs. provided information about Structure Activity Relationship (SAR) for the tingling effect exhibited by these chems. Based on this study we are able to propose a minimal structure required for the tingling effect. We also used this SAR knowledge to design stable compds. with potential tingling effect.

L18 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:923556 CAPLUS

DN 136:58521  
 ED Entered STN: 21 Dec 2001  
 TI Cosmetic composition for stressed skin under extreme conditions containing a hydrocarbon, a silicone and plant extracts  
 IN Mohammadi, Fatemeh; Vargas, Anthony  
 PA FD Management, Inc., USA  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N065-00  
 ICS A61K035-78; A61K039-385  
 CC 62-4 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001095728	A1	20011220	WO 2001-US19200	20010613
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002012640	A1	20020131	US 2001-880245	20010613
	US 6649178	B2	20031118		
PRAI	US 2000-211290P	P	20000613		

# CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001095728	ICM	A01N065-00
	ICS	A61K035-78; A61K039-385

AB A cosmetic composition is provided effective against stresses of climate extremes. The composition includes hot, cold and dry climate treatment portions. The hot climate treatment portion has a first botanical ingredient to impart a cool sensation, and a sunscreen agent. The cold climate treatment portion has a second botanical ingredient to combat skin inflammation, and a silicone fluid or hydrocarbon for retaining moisturize. The dry climate treatment portion has a third botanical ingredient to impart moisturization and an ester.  
 ST hydrocarbon silicone plant ext sunscreen cosmetic  
 IT Natural products, pharmaceutical  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Baizhu; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)  
 IT Balsams  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Canada, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)  
 IT Natural products, pharmaceutical  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Cangzhu; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)  
 IT Natural products, pharmaceutical  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (aloe, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)  
 IT Fats and Glyceridic oils, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (bean tree oil; cosmetic composition for stressed skin containing hydrocarbon,



silicone, plant exts. and sunscreen)

IT Pollen  
(bee; cosmetic composition for stressed skin containing hydrocarbon,  
silicone,  
plant exts. and sunscreen)

IT Anti-inflammatory agents  
(botanical; cosmetic composition for stressed skin containing hydrocarbon,  
silicone, plant exts. and sunscreen)

IT Proteins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(conchorin, hydrolyzates; cosmetic composition for stressed skin containing  
hydrocarbon, silicone, plant exts. and sunscreen)

IT Cosmetics  
Eleutherococcus  
Gentiana  
Stress, animal  
Sunscreens  
(cosmetic composition for stressed skin containing hydrocarbon, silicone,  
plant  
exts. and sunscreen)

IT Clays, biological studies  
Hydrocarbons, biological studies  
Petrolatum  
Polyamides, biological studies  
Polysiloxanes, biological studies  
Quaternary ammonium compounds, biological studies  
Silicone rubber, biological studies  
Sitosterols  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic composition for stressed skin containing hydrocarbon, silicone,  
plant  
exts. and sunscreen)

IT Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen polysiloxane-; cosmetic composition for stressed skin  
containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-; cosmetic composition for stressed  
skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Cyclosiloxanes  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me; cosmetic composition for stressed skin containing hydrocarbon,  
silicone,  
plant exts. and sunscreen)

IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(esters, C6-40; cosmetic composition for stressed skin containing  
hydrocarbon,  
silicone, plant exts. and sunscreen)

IT Opuntia  
Solanum dulcamara  
Yeast  
(extract; cosmetic composition for stressed skin containing hydrocarbon,  
silicone,  
plant exts. and sunscreen)

IT Acacia  
Achillea  
Aesculus  
Agropyron  
Alnus  
Angelica dahurica  
Arnica

Artemisia  
 Astragalus  
 Avena sativa  
 Black cohosh  
 Borago officinalis  
 Calendula  
 Caulophyllum thalictroides  
 Centaurea cyanus  
 Centella asiatica  
 Chamomile  
 Chrysanthemum parthenium  
 Cornus  
 Curcuma longa  
 Embryophyta  
 Ephedra  
 Equisetum  
 Euphrasia  
 Ganoderma  
 Geranium (genus)  
 Ginkgo  
 Ginkgo biloba  
 Gorgonacea  
 Harpagophytum procumbens  
 Hydrastis  
 Lantana camara  
 Lawsonia inermis  
 Leontopodium alpinum  
 Ligusticum  
 Marrubium vulgare  
 Millet  
 Oenothera  
 Panax  
 Panicum  
 Pinus pinaster  
 Piper methysticum  
 Psidium  
 Rhamnus  
 Rosmarinus officinalis  
 Scutellaria baicalensis  
 Stellaria  
 Symphytum  
 Trifolium pratense  
 Watercress  
 Yucca

(exts.; cosmetic composition for stressed skin containing hydrocarbon,  
 silicone,  
 plant exts. and sunscreen)

IT Natural products, pharmaceutical

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(fang feng; cosmetic composition for stressed skin containing hydrocarbon,  
 silicone, plant exts. and sunscreen)

IT Lonicera

(flower exts.; cosmetic composition for stressed skin containing  
 hydrocarbon,  
 silicone, plant exts. and sunscreen)

IT Forsythia

Vitis vinifera

(fruit exts.; cosmetic composition for stressed skin containing hydrocarbon,  
 silicone, plant exts. and sunscreen)

IT Essential oils

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(guaiac wood; cosmetic composition for stressed skin containing hydrocarbon,  
 silicone, plant exts. and sunscreen)

IT Resins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (guggal; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Caseins, biological studies  
 Collagens, biological studies  
 Elastins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydrolyzates; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Natural products, pharmaceutical  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (licorice, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Glycolipids  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (phytoglycolipids; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (potato, corn, rice; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Cichorium intybus  
 (root extract; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Paeonia  
 Quercus  
 (root exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Apium prostratum  
 (sea parsley, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (silk; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (soya; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Sterols  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (soybean and canola; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Canola  
 Glycine max  
 (sterols; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Skin  
 (stressed; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (wheat; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT 56-81-5, Glycerin, biological studies 57-13-6, Urea, biological studies  
 58-95-7, Vitamin E acetate 65-86-1, Orotic acid 83-48-7, Stigmasterol

89-48-5, Menthyl acetate 89-78-1, Menthol 89-79-2, Isopulegol  
 89-80-5, Menthone 97-59-6, Allantoin 99-20-7, Trehalose 104-46-1,  
 Anethole 110-17-8D, Fumaric acid, C12-15 dialkyl esters 112-92-5,  
 Stearyl Alcohol 119-36-8, Methyl salicylate 122-99-6, Phenoxyethanol  
 131-57-7, Benzophenone-3 275-51-4, Azulene 470-82-6, Eucalyptol  
 474-62-4, Campesterol 474-67-9, Brassicasterol 515-69-5, Bisabolol  
 517-89-5, Shikonin 1122-56-1, Cyclohexanecarboxamide 1122-56-1D,  
 Cyclohexane carboxamide, trialkyl-substituted 1490-04-6 5466-77-3,  
 Parsol MCX 6805-41-0, Escin 8066-38-4, Phenonip 9002-88-4,  
 Polyethylene 9005-00-9, Steareth-2 9016-00-6, Dimethylsiloxane  
 9067-32-7, Sodium hyaluronate 10043-11-5, Boron nitride, biological  
 studies 16485-10-2, DL-Panthenol 17162-29-7, Menthyl lactate  
 20283-92-5, Rosmarinic acid 25394-57-4, Spilanthol 39711-79-0,  
 N-Ethyl-p-menthane-3-carboxamide 42557-10-8, DC 200 51115-67-4  
 54571-67-4, PCA Soda 55592-86-4 63187-91-7 70356-09-1, Parsol 1789  
 75363-56-3 78886-66-5, Hydroxy- $\gamma$ - **sanshool**  
 83883-10-7, Hydroxy- $\alpha$ - **sanshool** 87061-04-9  
 97465-69-5, Hydroxy- $\beta$ - **sanshool** 125275-25-4,  
 Polyquaternium 51 190085-41-7 195868-36-1, Phenyl trimethicone  
 314020-17-2, KSG 15 374629-79-5 381224-14-2 381224-15-3  
 382137-53-3, Organza

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(cosmetic composition for stressed skin containing hydrocarbon, silicone,

plant

exts. and sunscreen)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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- (2) Mausner; US 5571503 A 1996 CAPLUS
- (3) Oblong; US 6238678 B1 2001 CAPLUS
- (4) Oda; US 5725874 A 1998

L18 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:581442 CAPLUS

DN 135:157391

ED Entered STN: 10 Aug 2001

TI A composition causing different skin **sensations**

IN Nakatsu, Tetsuo; Mazeiko, Peter J.; Lupo, Andrew T., Jr.; Green, Carter  
 B.; Manley, Charles H.; Spence, David J.; Ohta, Hideaki

PA Takasago International Corp., Japan

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 17, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1121927	A2	20010808	EP 2001-400266	20010202
	EP 1121927	A3	20030514		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6780443	B1	20040824	US 2000-498592	20000204
	BR 2001000254	A	20011002	BR 2001-254	20010201
	JP 2001279227	A2	20011010	JP 2001-27361	20010202
	US 2003215532	A1	20031120	US 2003-464149	20030617
	US 2004052735	A1	20040318	US 2003-625074	20030722
PRAI	US 2000-498592	A	20000204		

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 1121927 ICM A61K007-48  
EP 1121927 ECLA A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2;  
A61K007/48Z7D; C07C043/196  
US 6780443 ECLA A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2;  
A61K007/48Z7D; C07C043/196  
US 2003215532 ECLA A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2;  
A61K007/48Z7D; C07C043/196  
US 2004052735 ECLA A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2;  
A61K007/48Z7D; C07C043/196

AB The present invention is directed to a **sensate** composition including  
at least one cooling **sensate**, warming **sensate** and  
tingling **sensate**. The tingling **sensate** is at least  
one of Jambu Oleoresin and Spilanthol. The present invention is further  
directed to a method of using the **sensate** composition in a food,  
pharmaceutical or personal care product. A composition contained ethanol 55.0,  
propylene glycol 28.0, N-ethyl-2-isopropyl-5-methylcyclohexacarboxamide  
3.0, isopulegol 8.0, Jambu oleoresin 2.5, vanillyl bu ether 3.0, and  
mouthwash herbal flavor base 0.5 % by weight

ST skin **sensation** compn; mouthwash compn  
IT Alcoholic beverages  
Antiperspirants  
Deodorants  
Food additives  
Mouthwashes  
Pepper (Piper nigrum)  
Perfumes  
Zanthoxylum piperitum  
(composition causing different skin **sensations**)

IT Cosmetics  
(creams; composition causing different skin **sensations**)

IT Cosmetics  
(lotions; composition causing different skin **sensations**)

IT Drug delivery systems  
(lozenges; composition causing different skin **sensations**)

IT Drug delivery systems  
(ointments; composition causing different skin **sensations**)

IT Resins  
RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(oleoresins; composition causing different skin **sensations**)

IT Essential oils  
RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(peppermint; composition causing different skin **sensations**)

IT Essential oils  
RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(spearmint; composition causing different skin **sensations**)

IT Drug delivery systems  
(topical; composition causing different skin **sensations**)

IT Essential oils  
RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(wintergreen; composition causing different skin **sensations**)

IT 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2, Piperine 404-86-4,  
Capsaicin 495-91-0, Chavicine 1321-60-4, Trimethylcyclohexanol  
2216-51-5 2444-46-4 13184-86-6, Vanillyl ethyl ether 17162-29-7,  
Menthyl lactate 25394-57-4, Spilanthol 39711-79-0  
42822-86-6, p-Menthane-3,8-diol 58253-27-3, Gingerol 63187-91-7  
68527-74-2 68527-76-4 77341-67-4 81995-38-2, Vanillyl propyl ether  
82654-98-6, Vanillyl butyl ether 110866-25-6, **Sanshool**  
I 159131-97-2, Sanshoamide 195863-84-4 207792-35-6  
207844-02-8 207844-03-9 207844-04-0 207844-07-3 207844-08-4

, Sanshool II

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(composition causing different skin sensations)

L18 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:641414 CAPLUS  
 DN 132:18754  
 ED Entered STN: 08 Oct 1999  
 TI Alkylamides that produce tingling paresthesia activate tactile and thermal trigeminal neurons  
 AU Bryant, B. P.; Mezzine, I.  
 CS Monell Chemical Senses Center, Philadelphia, PA, USA  
 SO Brain Research (1999), 842(2), 452-460  
 CODEN: BRREAP; ISSN: 0006-8993  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 CC 1-12 (Pharmacology)  
 Section cross-reference(s): 14  
 AB Alkylamides isolated from the fruit of Xanthoxylum, Szechuan pepper, produce a strong tingling sensation in the mouth. To determine the peripheral basis of this sensation, extracellular nerve recordings were obtained from the lingual nerve of rats. The primary pungent compound, hydroxy- $\alpha$ - sanshool (HO- $\alpha$ -S), altered the levels of spontaneous activity in cool-sensitive fibers as well as inducing activity in tactile fibers, cold nociceptors and silent fibers that were insensitive to innocuous thermal or tactile stimuli. Moreover, tactile or thermal sensitivity was induced in fibers that were initially insensitive to touch or cooling. The neuronal distribution of sensitivities to capsaicin and to HO- $\alpha$ -S indicate that this compound affects neurons mediating innocuous sensations. HO- $\alpha$ -S may be useful as a model stimulus for studies of paresthesia.  
 ST alkylamide paresthesia tactile thermal trigeminal neuron  
 IT Pepper (spice)  
     (Szechuan; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Zanthoxylum  
     (alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Amides, biological studies  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
     (alkylamides; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Pain receptors  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
     (cold; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Nerve  
     (neuron, tactile and thermal; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Pain  
     (tingling paresthesia; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT Nerve  
     (trigeminal; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)  
 IT 83883-10-7, Hydroxy- $\alpha$ - sanshool 97465-69-5  
     , Hydroxy- $\beta$ - sanshool 252193-26-3,

Hydroxy- $\alpha$ - sanshool

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

- (1) Baumann, T; J Neurophysiol 1991, V66, P212 MEDLINE
- (2) Caterina, M; Nature 1997, V389, P816 CAPLUS
- (3) Cometto-Muniz, J; Physiol Behav 1985, V34, P385 MEDLINE
- (4) Craig, A; Science 1994, V265, P252 MEDLINE
- (5) Davis, K; Pain 1998, V75, P47 MEDLINE
- (6) Davis K; J Neurophysiol 1993, V69, P1071
- (7) Feigin, A; NeuroReports 1995, V6, P2134 CAPLUS
- (8) Green, B; Chem Sens 1992, V17, P435 CAPLUS
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- (10) Hensel, H; J Neurophysiol 1970, V33, P271 MEDLINE
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- (16) Nobile, M; Pfluegers Arch 1990, V415, P658 CAPLUS
- (17) Ochoa, J; J Physiol (London) 1983, V342, P633 MEDLINE
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- (21) Schmelz, M; J Neurosci 1997, V17, P8003 CAPLUS
- (22) Simone, D; J Neurophysiol 1997, V77, P2049 MEDLINE
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- (24) Steen, K; J Neurosci 1992, V12, P86 MEDLINE
- (25) Steranka, L; Proc Natl Acad Sci 1988, V85, P3245 CAPLUS
- (26) Swandulla, D; Pfluegers Arch 1987, V409, P52 CAPLUS
- (27) Szolcsanyi, J; Capsaicin in the study of pain 1993, P1 CAPLUS
- (28) Torebjork, H; Exp Brain Res 1973, V16, P321 MEDLINE
- (29) Weinreich, D; J Physiol 1987, V394, P415 MEDLINE
- (30) Yasuda, I; Phytochemistry 1982, V21, P1295 CAPLUS

L18 ANSWER 19 OF 20 JAPIO (C) 2004 JPO on STN

AN 1994-211677 JAPIO

TI PRIVATE PART-COATING CREAM CONTAINING ZANTHOXYLUM PIPPERITUM

IN TEZUKA SHIRO; TEZUKA GORO

PA TEZUKA SHIRO

TEZUKA GORO

PI JP 06211677 A 19940802 Heisei

AI JP 1993-19262 (JP05019262 Heisei) 19930111

PRAI JP 1993-19262 19930111

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994

IC ICM A61K035-78

ICS A61K035-78; A61K009-06

AB PURPOSE: To prepare the private part-coating cream suitably stimulating the private part to give a pleasant **sensation**, immediately when coated on the private part, and capable of strengthening and maintaining the sexual energy of the private part when continuously used.  
CONSTITUTION: This private part-coating cream is characterized by comprising a stimulative substance obtained from the Zanthoxylum piperitum and containing **sanshool** or sanshoamide as a main ingredient, and a creamy stimulative substance concentration-controlling material obtained from a plant. The main ingredient of the controlling material comprises the mixture of a non-stimulating plant such as Luffa cylindrica, a vegetable fat and oil such as margarine, an aromatic plant such as vanilla, a pigment-containing plant such as the flower of Gardenia jasminoides, a plant having a pharmacodynamic effect such as Allium sativum L. f. pekinense, and various plant source modulating materials. The mixed cream may further be mixed with a sexual hormone and a stimulation auxiliary material extracted from a stimulative plant such as Zingiber officinale.  
COPYRIGHT: (C)1994,JPO&Japio

L18 ANSWER 20 OF 20 JAPIO (C) 2004 JPO on STN

AN 1994-211675 JAPIO

TI PRIVATE PART-COATING SOLUTION CONTAINING ZANTHOXYLUM PIPERITUM

IN TEZUKA SHIRO; TEZUKA GORO

PA TEZUKA SHIRO

TEZUKA GORO

PI JP 06211675 A 19940802 Heisei

AI JP 1993-19260 (JP05019260 Heisei) 19930111

PRAI JP 1993-19260 19930111

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994

IC ICM A61K035-78

ICS A61K035-78; A61K009-08

AB PURPOSE: To prepare the private part-coating solution immediately suitably stimulating the private part of a male and giving a pleasant **sensation** by simply directly coating on the private part with a sprayer, and enabling to increase and maintain the sexual energy of the private part.  
CONSTITUTION: A Japanese pepper extract obtained from the Zanthoxylum piperitum and containing stimulative substances such as **sanshool** and sanshoamide as main ingredients is mixed with a dilution liquid such as water, an alcoholic liquid or an oil to control the stimulative concentrations of the Zanthoxylum piperitum extract. The dilution liquid is used by combining it with a liquid extracted from an animal, that extracted from an aromatic massively water-containing plant such as lemon or orange, that from a from a pigment-containing plant such as the flower of Gardenia jasminoides, that from a massively water-containing fruit such as Luffa cylindrica or peach, and that from a plant having a pharmacodynamic effect such as Actinidia polygama or Allium sativum L. f. pekinense. The mixture solution may further be mixed with a sexual hormone or a stimulation auxiliary solution extracted from Zingiber officinale or Wasabi japonica.



=>

DETD . . . 10 Min 20 Min

FLAVOR AMOUNT			
	61.66	51.66	41.66
FLAVOR LIKING			
	60	51.66	46.66
SWEETS AMOUNT			
	60	38.33	31.66
SWEET LIKING	48.33	43.33	40
COOLING SENSATION			
	8.33	5	5
COOLING LIKE	16.66	15	15
TEXTURE	38.33	43.33	50
TEXTURE LIKE	38.33	58.33	60
OVERALL LIKING			58.33333

IT 50-70-4, D-Glucitol, biological studies 50-99-7, D-Glucose, biological studies 57-48-7, D-Fructose, biological studies 57-50-1, biological studies 63-42-3, Lactose 69-65-8, Mannitol 81-07-2, Saccharin 87-81-0, D-Tagatose 87-99-0, Xylitol 100-88-9D, Cyclamate, derivs 585-86-4, Lactitol 585-88-6, Maltitol 12619-70-4D, Cyclodextrin, derivs 22839-47-0, Aspartame 25394-57-4, Affinin 55589-62-3, Acesulfame potassium 56038-13-2, Sucralose 80863-62-3, Alitame

(extended release of additives in comestible products)

ACCESSION NUMBER: 1999:67049 USPATFULL  
TITLE: Comestible products having extended release of additives and method of making  
INVENTOR(S): Huzinec, Robert J., Carol Stream, IL, United States  
Kearns, Thomas R., Buffalo Grove, IL, United States  
Schindeldecker, Terry L., Gurnee, IL, United States  
PATENT ASSIGNEE(S): Leaf Inc., Lake Forest, IL, United States (U.S. corporation)

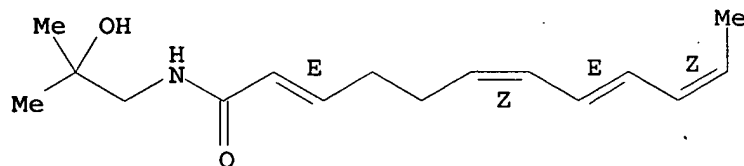
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5912030		19990615
APPLICATION INFO.:	US 1997-923318		19970904 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-543422, filed on 16 Oct 1995, now abandoned		
DOCUMENT TYPE:	Utility		

L6 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 352515-13-0 REGISTRY  
CN Sanshool II (9CI) (CA INDEX NAME)  
ENTE An extract of Zanthoxylum piperidum; cannot equate to known structures for  
sanshools, as literature too old and inconclusive  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA Caplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)  
RL.NP Roles from non-patents: NORL (No role in record)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 252193-26-3 REGISTRY  
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-,  
(2E,6Z,8E,10Z)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Hydroxy-ε-sanshool  
FS STEREOSEARCH  
MF C16 H25 N O2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 110866-28-9 REGISTRY  
CN Sanshool V (9CI) (CA INDEX NAME)  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN

RN 110866-27-8 REGISTRY  
CN **Sanshool IV (9CI)** (CA INDEX NAME)  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 110866-26-7 REGISTRY  
CN **Sanshool III (9CI)** (CA INDEX NAME)  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

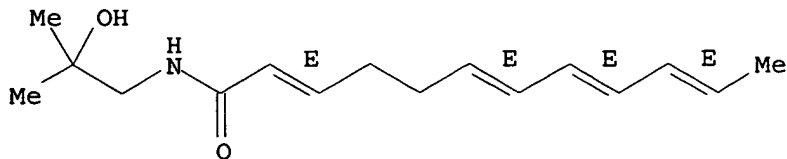
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 110866-25-6 REGISTRY  
CN **Sanshool I (9CI)** (CA INDEX NAME)  
ENTE An extract of Zanthoxylum piperidum; cannot equate to known structures for sanshools, as literature too old and inconclusive  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
DT.CA Caplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); NORL (No role in record)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
9 REFERENCES IN FILE CA (1907 TO DATE)  
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 97465-69-5 REGISTRY  
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (2E,6E,8E,10E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (all-E)-  
OTHER NAMES:  
CN **Hydroxy- $\beta$ -sanshool**  
FS STEREOSEARCH  
MF C16 H25 N O2  
SR CA  
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
DT.CA Caplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

Double bond geometry as shown.

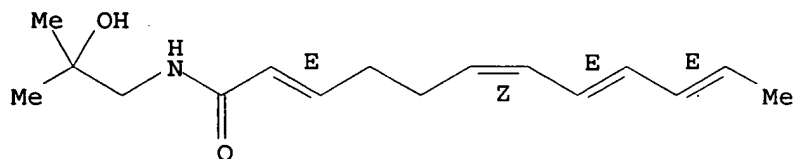


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 83883-10-7 REGISTRY  
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-,  
(2E,6Z,8E,10E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (E,E,Z,E)-  
OTHER NAMES:  
CN Hydroxy- $\alpha$ -sanshool  
FS STEREOSEARCH  
MF C16 H25 N O2  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAPLUS, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
DT.CA Caplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PROC  
(Process); USES (Uses)  
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);  
PREP (Preparation)  
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
study); USES (Uses)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 78886-66-5 REGISTRY  
CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-hydroxy-2-methylpropyl)-,  
(2E,4E,8Z,10E,12E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-hydroxy-2-methylpropyl)-,  
(E,E,E,Z,E)-  
OTHER NAMES:  
CN Hydroxy- $\gamma$ -sanshool

CN Hydroxy- $\gamma$ -sanshool

FS STEREOSEARCH

MF C18 H27 N O2

LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, USPAT2, USPATFULL

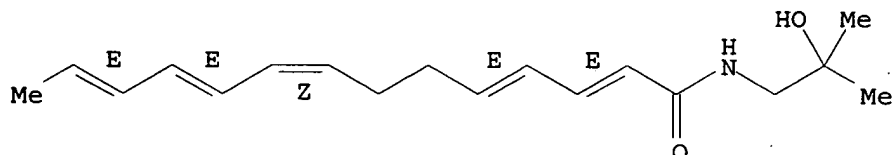
(\*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)

13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN

RN 78886-65-4 REGISTRY

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-methylpropyl)-, (2E,4E,8Z,10E,12E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-methylpropyl)-, (E,E,E,Z,E)-

OTHER NAMES:

CN  $\gamma$ -Sanshool

CN  $\gamma$ -Sanshool

FS STEREOSEARCH

MF C18 H27 N O

LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAPLUS, IPA, NAPRALERT, TOXCENTER, USPATFULL

(\*File contains numerically searchable property data)

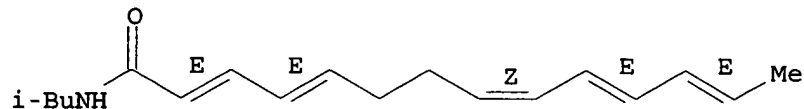
DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

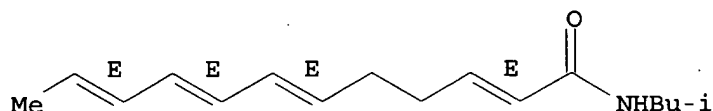
19 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 10076-00-3 REGISTRY  
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (2E,6E,8E,10E)- (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (all-E)-  
 CN 2,6,8,10-Dodecatetraenamide, N-isobutyl-, (all-E)- (8CI)  
 OTHER NAMES:  
 CN  $\beta$ -Sanshool  
 FS STEREOSEARCH  
 MF C16 H25 N O  
 CI COM  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);  
 PREP (Preparation); PRP (Properties)  
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological  
 study)

Double bond geometry as shown.

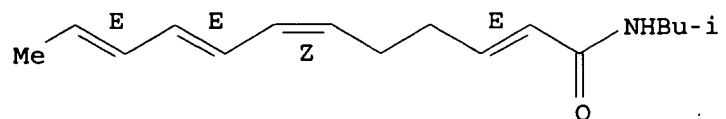


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 504-97-2 REGISTRY  
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (2E,6Z,8E,10E)- (9CI)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (E,E,Z,E)-  
 CN 2,6,8,10-Dodecatetraenamide, N-isobutyl-, (E,E,Z,E)- (8CI)  
 OTHER NAMES:  
 CN  $\alpha$ -Sanshool  
 CN  $\alpha$ -Sanshool  
 CN Echinacein  
 FS STEREOSEARCH  
 MF C16 H25 N O  
 CI COM  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS,  
 CASREACT, IPA, MEDLINE, NAPRALERT, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP  
 (Preparation); PROC (Process); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);  
 PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES  
 (Uses); NORL (No role in record)

Double bond geometry as shown.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

23 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES IN FILE CAPLUS (1907 TO DATE)